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Hip joint prosthesis fastening - has socket secured to pelvic bone by two types of fixing screws

Patent Assignee: ESKA MED LUBECK MED; ESKA MEDICAL LUEBECK
MEDIZINTECH

Inventors: GRADINGER R; HEINZ M; MOSER H

Patent Family (5 patents, 12 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
DE 3918970	A	19901213	DE 3918970	A	19890612	199051	B
EP 402810	A	19901219	EP 1990110953	A	19900609	199051	E
DE 3918970	C	19920723	DE 3918970	A	19890612	199230	E
EP 402810	B1	19930407	EP 1990110953	A	19900609	199314	E
DE 59001162	G	19930513	DE 59001162	A	19900609	199320	E
			EP 1990110953	A	19900609		

Priority Application Number (Number Kind Date): DE 3918970 A 19890612

Patent Details

Patent Number	Kind	Language	Pages	Drawings	Filing Notes
EP 402810	A	EN			
Regional Designated States, Original	AT BE CH DE ES FR GB GR IT LI LU NL SE				
DE 3918970	C	DE	10	14	Addition in patent DE 3942367
EP 402810	B1	DE	13	14	
Regional Designated States, Original	CH DE FR IT LI				
DE 59001162	G	DE			Application EP 1990110953
					Based on OPI patent EP

Alerting Abstract: DE A

The hip joint prosthesis has a socket (1) which is fixed in the pelvic bone (30) of the patient. This socket has an outer layer (4) of metallic material with an open cellular structure. The socket is secured to the bone (30) by two types of fixings.

The first type of fixing consists of a relatively long screw (2) which is screwed directly into the pelvic bone (30) and is accessible through a hole in the inner layer of the socket (1). The second type of fixing consists of a short screw (14) which engages a groove in a bracket (8) which is secured to the pelvic bone by a screw (17).

USE - joint prosthesis. @(10pp Dwg.No.9/14)@

Equivalent Alerting Abstract:

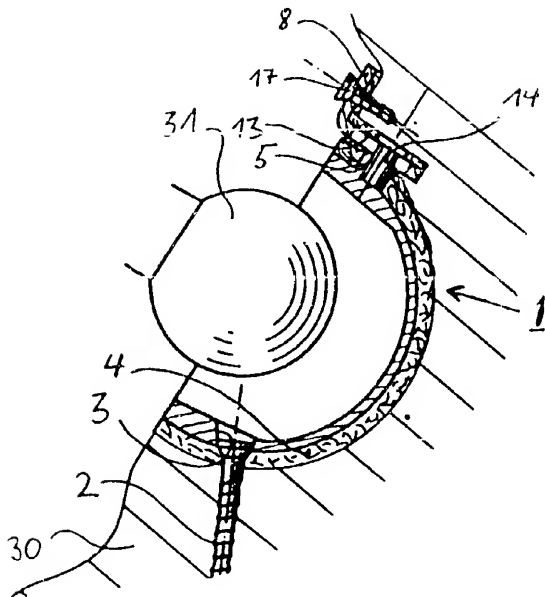
DE C

Implant assembly comprises cup shaped socket with outside open-pore metal structure connected to first and second fixers to clamp the socket in the bone. The first fixer should be inserted through a first hole in the socket (1) and guided where it radiates from this.

A metal strip (5) enclosed in the open-pore metal structure (4) of the socket has two locating bearings (6) to take one or more second fixers (7). Pref. the radial extent of the strip (5) matches that of the structure (4) and the second fixers are pins which screw into tapped holes provided in the strip (5).

USE/ADVANTAGE - Pelvic bone injuries. Socket implant is fixed in bone to ensure progressive growth and embedment.

Main Drawing Sheet(s) or Clipped Structure(s)



International Classification (Main): A61F-002/34

International Patent Classification

IPC	Level	Value	Position	Status	Version
A61B-0017/68	A	N		R	20060101
A61B-0017/86	A	N		R	20060101

A61F-0002/00	A	N	R	20060101
A61F-0002/30	A	I	R	20060101
A61F-0002/32	A	N	R	20060101
A61F-0002/34	A	I	R	20060101
A61F-0002/36	A	N	R	20060101
A61B-0017/68	C	N	R	20060101
A61F-0002/00	C	N	R	20060101
A61F-0002/30	C	I	R	20060101
A61F-0002/32	C	I	R	20060101
A61F-0002/36	C	N	R	20060101

Original Publication Data by Authority

Germany

Publication Number: DE 3918970 A (Update 199051 B)

Publication Date: 19901213

****Implantationssatz****

Assignee: Eska Medical Luebeck Medizintechnik GmbH Co, 2400 Luebeck, DE (ESKA-N)
 Inventor: Moser, Heinz, 6227 Oestrich-Winkel, DE Gradinger, Reiner, Dr., 8000 Muenchen, DE
 Agent: Fuchs, J., Dr.-Ing. Dipl.-Ing. B. Com.; Luderschmidt, W., Dipl.-Chem. Dr.phil.nat.;
 Seids, H., Dipl.-Phys.; Mehler, K., Dipl.-Phys. Dr.rer.nat.; Weiss, C., Dipl.-Ing. Univ., Pat.-
 Anwaelte, 6200 Wiesbaden

Language: DE

Application: DE 3918970 A 19890612 (Local application)

Original IPC: A61F-2/34

Current IPC: A61B-17/68(R,N,M,EP,20060101,20051008,A) A61B-17/68(R,N,M,EP,20060101,20051008,C) A61B-17/86(R,N,M,EP,20060101,20051008,A) A61F-2/00(R,N,M,EP,20060101,20051008,A) A61F-2/00(R,N,M,EP,20060101,20051008,C) A61F-2/30(R,I,M,EP,20060101,20051008,A) A61F-2/30(R,I,M,EP,20060101,20051008,C) A61F-2/32(R,N,M,EP,20060101,20051008,A) A61F-2/32(R,I,M,EP,20060101,20051008,C) A61F-2/34(R,I,M,EP,20060101,20051008,A) A61F-2/36(R,N,M,EP,20060101,20051008,A) A61F-2/36(R,N,M,EP,20060101,20051008,C)

Current ECLA class: A61F-2/30L4 A61F-2/34

Current ECLA ICO class: K61B-17:68 K61B-17:86 K61F-2:00T4 K61F-2:00T7 K61F-2:30L2A11 K61F-2:30L2A4 K61F-2:30L2A5 K61F-2:30L2A9P K61F-2:30L2B4 K61F-2:30L2B9Q K61F-2:30L5 K61F-2:30P2 K61F-2:30S9Q K61F-2:32 K61F-2:34A K61F-2:34A2 K61F-2:34A5 K61F-2:34D K61F-2:34S8 K61F-2:34T2 K61F-2:36C1

Claim: * 1. Implantationssatz, bestehend aus einer in eine Beckenknochenpfanne e inpressbaren, auf ihrer Aussenflache mit einer offenzelligen metallisch en Struktur versehenen kalottenformigen Gelenkpfanne und aus jeweils mi ndestens einem ersten und zweiten Fixationselement zur Verspannung der Gelenkpfanne in dem Beckenknochen, ****dadurch gekennzeichnet,**** dass da s erste Fixationselement (****2****) durch einen Durchgriff (****3****) in der Gelenkpfanne (****1****) setzbar und dort verschieblich fuhrbar ist, wobei es radial nach aussen

weist, und * dass auf der Aussenfläche der Gelenkpfanne (**1**) eine von der metallischen offenzelligen Struktur (**4**) umfasste Montageleiste (**5**) mit mindestens zwei Fixationslagern (**6**) vorgesehen ist, in welche wahlweise ein oder mehrere zweite Fixationselemente (**7**, **8**, **9**) einsetzbar sind. |DE 3918970 C (Update 199230 E)
Publication Date: 1992 0723

Set fuer die Erstellung eines Implantates als Ersatz fuer eine zerstorte Beckenknochenpfanne

Assignee: ESKA Medical Luebeck Medizintechnik GmbH Co, 2400 Luebeck, DE (ESKA-N)
Inventor: Moser, Heinz, 6227 Oestrich-Winkel, DE Grading, Reiner, Dr., 8000 Muenchen, DE
Agent: Fuchs, J., Dr.-Ing. Dipl.-Ing. B.Com.; Luderschmidt, W., Dipl.-Chem. Dr. phil.nat.; Seids, H., Dipl.-Phys.; Mehler, K., Dipl.-Phys. Dr.rer.nat.; Weiss, C., Dipl.-Ing.Univ., Pat.-Anwaelt, 6200 Wiesbaden
Language: DE (10 pages, 14 drawings)

Application: DE 3918970 A 19890612 (Local application)

Related Publication: DE 3942367 A (Addition in patent)

Original IPC: A61F-2/34(A)

Current IPC: A61B-17/68(R,A,N,M,EP,20060101,20051008,A) A61B-17/68(R,N,M,EP,20060101,20051008,C) A61B-17/86(R,N,M,EP,2006 0101,20051008,A) A61F-2/00(R,N,M,EP,20060101,20051008,A) A61F-2/00(R,N,M,EP,20060101,20051008,C) A61F-2/30(R,I,M,EP,20060101,20051008,A) A61F-2/30(R,I,M,EP,20060101,20051008,C) A61F-2/32(R,N,M,EP,20060101,20051008,A) A61F-2/32(R,I,M,EP,20060101,20051008,C) A61F-2/34(R,I,M,EP,20060101,20051008,A) A61F-2/36(R,N,M,EP,20060101,20051008,A) A61F-2/36(R,N,M,EP,20060101,20051008,C)

Current ECLA class: A61F-2/30L4 A61F-2/34

Current ECLA ICO class: K61B-17:68 K61B-17:86 K61F-2:00T4 K61F-2:00T7 K61F-2:30L2A11 K61F-2:30L2A4 K61F-2:30L2A5 K61F-2:30L2A9P K61F-2:30L2B4 K61F-2:30L2B9Q K61F-2:30L5 K61F-2:30P2 K61F-2:30S9Q K61F-2:32 K61F-2:34A K61F-2:34A2 K61F-2:34A5 K61F-2:34D K61F-2:34S8 K61F-2:34T2 K61F-2:36C1

Claim: * 1. Set fuer die Erstellung eines Implantates als Ersatz fuer eine zerstorte Beckenknochenpfanne, bestehend aus einer auf ihrer Aussenfläche mit einer offenzelligen metallischen Struktur versehenen kalottenformigen Gelenkpfanne und aus mit dieser verbindbaren ersten und zweiten Fixationselementen zur Verspannung der Gelenkpfanne in dem Beckenknochen, **da durch gekennzeichnet, ** dass das erste Fixationselement (**2**) durch einen Durchgriff (**3**) in der Gelenkpfanne (**1**) setzbar und dort verriegelbar ist, wobei es radial nach aussen weist, dass auf der Aussenfläche der Gelenkpfanne (**1**) eine von der metallischen offenzelligen Struktur (**4**) umfasste Montageleiste (**5**) mit mindestens zwei Fixationslagern (**6**) vorgesehen ist, in welche wahlweise ein oder mehrere zweite Fixationselemente (**7**, **8**, **9**) einsetzbar sind, und dass die Fixationslager (**6**) der Montageleiste (**5**) Gewindebohrungen sind, an bzw. in welche die zweite Fixationselemente (**7, 8, 9**) schraubbar sind. |DE 59001162 G (Update 199320 E)

Publication Date: 19930513

Assignee: ESKA MEDICAL LUEBECK MEDIZINTECH (ESKA-N)

Inventor: HEINZ M GRADINGER R

Language: DE

Application: DE 59001162 A 199006 09 (Local application) EP 1990110953 A 19900609 (Application)

Priority: DE 3918970 A 19890612
Related Publication: EP 402810 A (Based on OPI patent)
Original IPC: A61F-2/34(A)
Current IPC: A61F-2/34(A)

European Patent Office

Publication Number: EP 402810 A (Update 199051 E)

Publication Date: 19901219

****Implantationssatz Implantation set Ensemble d'implantation****

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Inventor: Heinz, Moser, Zangerstrasse 32 a, D-6227 Ostrich-Winkel, DE Gradinger, Reiner, Dr., Trappentreu 19, D-8000 Muenchen 2, DE

Agent: Dr. Fuchs, Dr. Luderschmidt Dipl.-Phys. Seids, Dr. Mehler Patentanwaelte, Abraham-Lincoln-Strasse 7, D-6200 Wiesbaden, DE

Language: EN

Application: EP 1990110953 A 19900609 (Local application)

Priority: DE 3918970 A 19890612

Designated States: (Regional Original) AT BE CH DE ES FR GB GR IT LI LU NL SE

Original IPC: A61F-2/34

Current IPC: A61B-17/68(R,A,N,M,EP,20060101,20051008,A) A61B-17/68(R,N,M,EP,20060101,20051008,C) A61B-17/86(R,N,M,EP,20060101,20051008,A) A61F-2/00(R,N,M,EP,20060101,20051008,A) A61F-2/00(R,N,M,EP,20060101,20051008,C) A61F-2/30(R,I,M,EP,20060101,20051008,A) A61F-2/30(R,I,M,EP,20060101,20051008,C) A61F-2/32(R,N,M,EP,20060101,20051008,A) A61F-2/32(R,I,M,EP,20060101,20051008,C) A61F-2/34(R,I,M,EP,20060101,20051008,A) A61F-2/36(R,N,M,EP,20060101,20051008,A) A61F-2/36(R,N,M,EP,20060101,20051008,C)

Current ECLA class: A61F-2/30L4 A61F-2/34

Current ECLA ICO class: K61B-17:68 K61B-17:86 K61F-2:00T4 K61F-2:00T7 K61F-2:30L2A11 K61F-2:30L2A4 K61F-2:30L2A5 K61F-2:30L2A9P K61F-2:30L2B4 K61F-2:30L2B9Q K61F-2:30L5 K61F-2:30P2 K61F-2:30S9Q K61F-2:32 K61F-2:34A K61F-2:34A2 K61F-2:34A5 K61F-2:34D K61F-2:34S8 K61F-2:34T2 K61F-2:36C1

Original Abstract: An implantation set is described, consisting of a shell-shaped acetabular cup (1) which can be pressed into a pelvic bone cavity and is provided on its outer surface with an open-cell, metallic structure (4), and of in each case at least one first and second fixation element (2; 7, 8, 9) for bracing the acetabular cup (1) in the pelvic bone. The first fixation element (2) can be fitted in the acetabular cup (1) through a punch (3) and can be guided displaceably therein, pointing radially outwards. On the outer surface of the acetabular cup (1), an assembly strip (5) surrounded by the metallic open-cell structure is provided with at least two fixation bearings (6), into which optionally one or more second fixation elements (7, 8, 9) can be fitted (Figure 2). [EP 402810 B1 (Update 199314 E)]

Publication Date: 19930407

****Implantationssatz Implantation set Ensemble d'implantation****

Assignee: ESKA MEDICAL LUBECK MEDIZINTECHNIK GmbH Co., Grapengiesserstrasse, 21, W-2400 Luebeck, DE (ESKA-N)

Inventor: Heinz, Moser, Zangerstrasse 32 a, W-6227 Ostrich-Winkel, DE Gradinger, Reiner, Dr.,

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Agent: Dr. Fuchs, Dr. Luderschmidt Dr. Mehler, Dipl.-Ing Weiss Patentanwaelte, Abraham-Lincoln-Strasse 7, W-6200 Wiesbaden, DE

Language: DE (13 pages, 14 drawings)

Application: EP 1990110953 A 19900609 (Local application)

Priority: DE 3918970 A 19890612

Designated States: (Regional Original) CH DE FR IT LI

Original IPC: A61F-2/34(A)

Current IPC: A61B-17/68(R,A,N,M,EP,20060101,20051008,A) A61B-17/68(R,N,M,EP,20060101,20051008,C) A61B-17/86(R,N,M,EP,20060101,20051008,A) A61F-2/00(R,N,M,EP,20060101,20051008,A) A61F-2/00(R,N,M,EP,20060101,20051008,C) A61F-2/30(R,I,M,EP,20060101,20051008,A) A61F-2/30(R,I,M,EP,20060101,20051008,C) A61F-2/32(R,N,M,EP,20060101,20051008,A) A61F-2/32(R,I,M,EP,20060101,20051008,C) A61F-2/34(R,I,M,EP,20060101,20051008,A) A61F-2/36(R,N,M,EP,20060101,20051008,A) A61F-2/36(R,N,M,EP,20060101,20051008,C)

Current ECLA class: A61F-2/30L4 A61F-2/34

Current ECLA ICO class: K61B-17:68 K61B-17:86 K61F-2:00T4 K61F-2:00T7 K61F-2:30L2A11 K61F-2:30L2A4 K61F-2:30L2A5 K61F-2:30L2A9P K61F-2:30L2B4 K61F-2:30L2B9Q K61F-2:30L5 K61F-2:30P2 K61F-2:30S9Q K61F-2:32 K61F-2:34A K61F-2:34A2 K61F-2:34A5 K61F-2:34D K61F-2:34S8 K61F-2:34T2 K61F-2:36C1

Claim: * 1. Implantationssatz, bestehend aus einer in eine Beckenknochenpfanne e inpressbaren, auf ihrer Aussenflaeche mit einer offenzelligen metallischen Struktur (4) versehenen kalottenfoermigen Gelenkpfanne (1) und aus jeweils mindestens einem ersten (2) und zweiten (7,8,9) Fixationselement zur Verspannung der Gelenkpfanne (1) in dem Beckenknochen (30), dadurch gekennzeichnet, dass das erste Fixationselement (2) durch einen als Laengsschlitz ausgebildeten Durchgriff (3) in der Gelenkpfanne (1) setzbar und dort verschieblich fuerhbar ist, wobei es radial nach aussen we ist, und dass auf der Aussenflaeche der Gelenkpfanne (1) eine von der metallischen offenzelligen Struktur (4) umfasste Montageleiste (5) mit mindestens zwei Fixationslagern (6) vorgesehen ist, in welche wahlweise ein oder mehrere zweite Fixationselemente (7,8,9) einsetzbar sind. * 1. Implantation set comprising a calotte-shaped acetabulum (1) that can be forced into a pelvic bone socket and being provided on its outer surface with a metallic open-cell structure (4), and further providing in each case at least a first (2) and a second (7, 8, 9) fixation element to brace the acetabulum (1) in the pelvic bone (30), characterized in that the said first fixation element (2) can be placed in the acetabulum (1) through a gap (3) formed as longitudinal slit and there being slidably guidable in vertically pointing outwards, and in that on the outer surface of the acetabulum (1) a mounting (5) is provided and closed by the said metallic open-cell structure (4) and having at least two fixation bearings (6) into which there can be optionally inserted one or a plurality of the said second fixation elements (7, 8, 9).

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Dialog® File Number 351 Accession Number 5376946